ELSEVIER

Journal of Membrane Science 99 (1995) 309–310

journal of MEMBRANE SCIENCE

Contents

Mass transfer coefficient and retention of PEGs in low pressure cross-flow ultrafiltration through asymmetric membranes
P. Prádanos, J.I. Arribas and A. Hernández (Valladolid, Spain) 1
Ultrafiltration of a large polyelectrolyte
J.A. Wesselingh and P. Vonk (Groningen, Netherlands) 21
Novel highly permselective 6F-poly(amide-imide)s as membrane host for nano-sized catalysts
D. Fritsch and K.-V. Peinemann (Geesthacht, Germany) 29
Multiple steady states in ionic membranes with negative conductance
M.G. Lee and J. Jorné (Rochester, NY, USA) 39
Selective extraction of Pb^{2+} by metal-sorbing vesicles bearing ionophores of a new class
J.H. Van Zanten, D.S.-W. Chang, I. Stanish and H.G. Monbouquette (Los Angeles, CA, USA) 49
Formation and characterization of supported microporous ceramic membranes prepared by sol-gel modification techniques
R.S.A. De Lange, J.H.A. Hekkink, K. Keizer and A.J. Burggraaf (Enschede, Netherlands) 57
Modelling the effects of particle polydispersity in crossflow filtration
G. Foley, D.M. Malone and F. MacLoughlin (Dublin, Ireland) 77
Fabrication of ultrathin metallic membranes on ceramic supports by sputter deposition
V. Jayaraman, Y.S. Lin, M. Pakala and R.Y. Lin (Cincinnati, OH, USA) 89

Book review 101
Meeting announcement 103
Meetings calendar 105

Numerical simulation of solvent diffusion for binary alcohol mixtures in polyacrylonitrile membrane
A. Gotō, M. Takahashi, N. Kuwahara and K. Kubota (Gunma, Japan) 107
Enantioselective permeation through poly{γ-[3-(pentamethyldisiloxanyl)propyl]-L-glutamate} membranes
T. Aoki, S. Tomizawa and E. Oikawa (Niigata, Japan) 117
Pore size distribution determination from liquid permeation through microporous membranes
K.S. McGuire, K.W. Lawson and D.R. Lloyd (Austin, TX, USA) 127
Effect of plasma treatment on CO_2 permeability and selectivity of poly(dimethylsiloxane) membrane
H. Matsuyama, M. Teramoto and K. Hirai (Kyoto, Japan) 139
Performance evaluation of surface hydrophilized novel ultrafiltration membranes using aqueous proteins
K.-J. Kim and A.G. Fane (Sydney, Australia) 149
CO_2/CH_4 transport in polyperfluorosulfonate ionomers: Effects of polar solvents on permeation and solubility
J. Pellegrino and Y.S. Kang (Boulder, CO, USA) 163
Two- and three-dimensional analysis of diffusion through a dense membrane supported on a porous material
N. Itoh (Tsukuba, Japan), T.-H. Wu (Wuhan, China) and K. Haraya (Tsukuba, Japan) 175

1995 Elsevier Science
SSDI 0376-7388

Water transport across polystyrenesulfonate/alumina composite membranes
P. Aranda, W.-J. Chen and C.R. Martin (Fort Collins, CO, USA) 185

Short communication
Novel techniques for oil/water separation
U. Daiminger, W. Nitsch, P. Plucinski and S. Hoffmann (Garching, Germany) 197

Meeting calendar 205

Non-invasive observation of flow profiles and polarisation layers in hollow fibre membrane filtration modules using NMR micro-imaging
S. Yao, M. Costello, A.G. Fane and J.M. Pope (Sydney, NSW, Australia) 207
Characterization of hemodialysis membranes by inverse size exclusion chromatography
A.P. Broek, H.A. Teunis, D. Bargeman (Enschede, Netherlands), E.D. Sprengers (Boxtel, Netherlands), H. Strathmann and C.A. Smolders (Enschede, Netherlands) 217
Calculation of limiting fluxes in the ultrafiltration of colloids and fine particulates
K. Welsch (Kensington, NSW, Australia), R.M. Mc Donogh (Dassel, Germany), A.G. Fane and C.J.D. Fell (Kensington, NSW, Australia) 229
The performance of a rotating filter 1. Theoretical analysis of the flow in an annulus with a rotating inner porous wall
P. Dolecek, P. Mikulasek (Pardubice, Czech Republic) and G. Belfort (Troy, NY, USA) 241
Continued studies of an electroconvective liquid membrane for gas separation
J.P. Collins, R.D. Noble, C.H. Park and N.A. Clark (Boulder, CO, USA) 249
Design methodology for a membrane/distillation column hybrid process
W. Stephan, R.D. Noble and C.A. Koval (Boulder, CO, USA) 259
Sorption and pervaporation of benzene–cyclohexane mixtures through composite membranes prepared via concentrated emulsion polymerization
F. Sun and E. Ruckenstein (Buffalo, NY, USA) 273
The effect of the pH on electrolyte transport through microporous membranes bearing either weakly or strongly dissociating acid groups. A theoretical analysis using the space-charge model for a cylindrical capillary
H.J.M. Hijnen and J.A.M. Smit (Leiden, Netherlands) 285

Meetings calendar 303
Author index 305
Subject index 307
Contents 309